FIG. 1

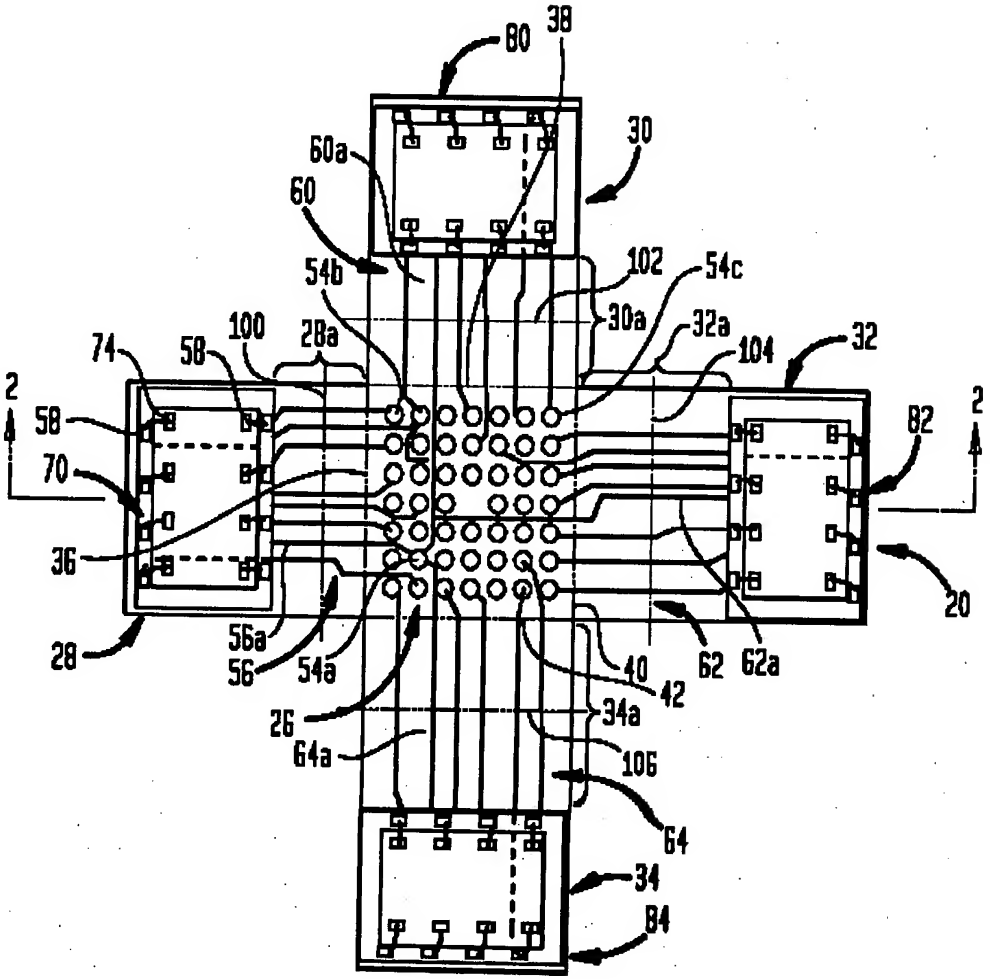

80
38
30
60a
60
54b
102
54c
30a
32a
104
32
100
28a
74
58
2
2
58
70
82
36
20
28
56a
56
54a
40
42
62
62a
26
34a
64a
106
64
34
84

FIG. 2

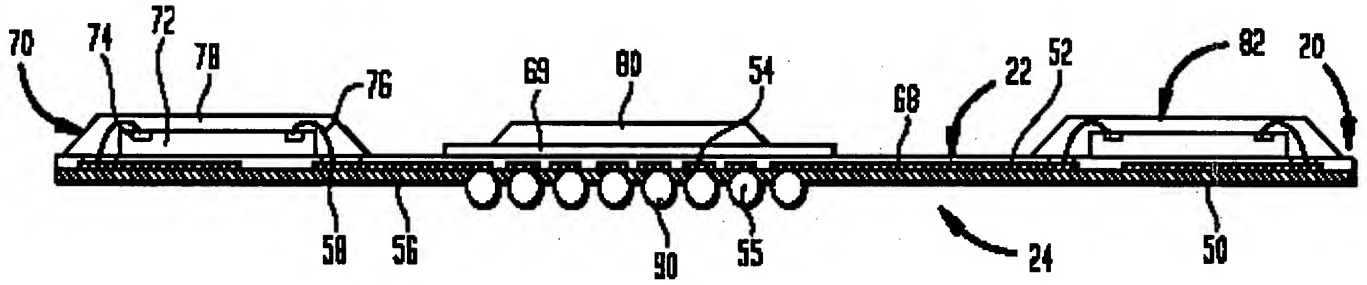


FIG. 3A

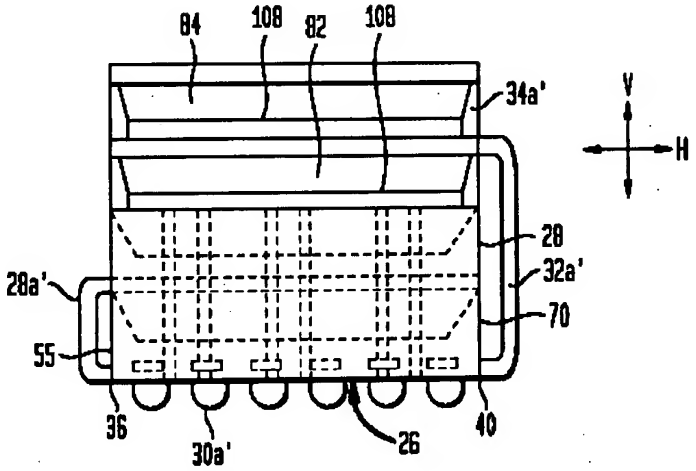

84
108
82
108
34a'
V
H
28
32a'
28a'
70
55
36
30a'
26
40

FIG. 3B

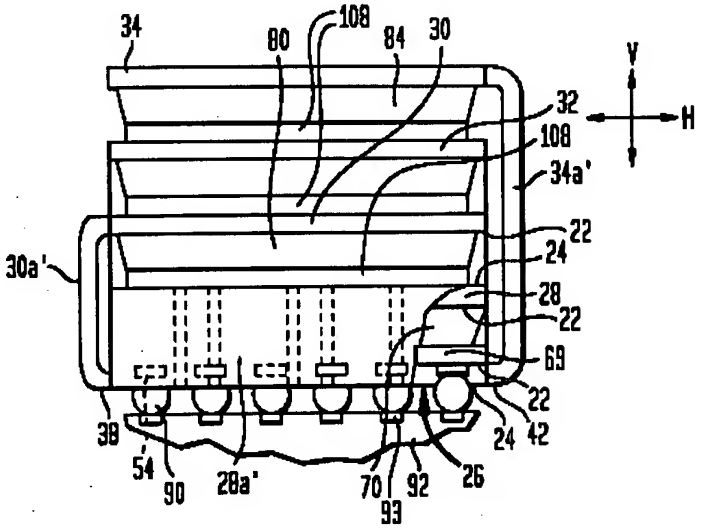

34
80
108
84
30
V
H
32
108
34a'
22
24
30a'
28
22
69
22
24
42
38
54
90
28a'
70
93
92
26

FIG. 4

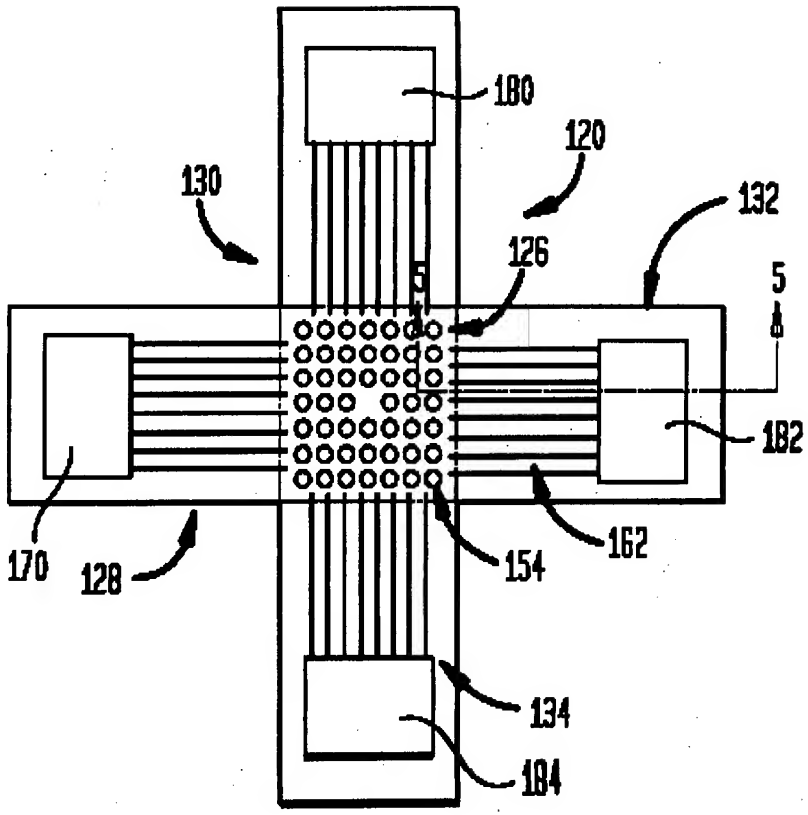


FIG. 5

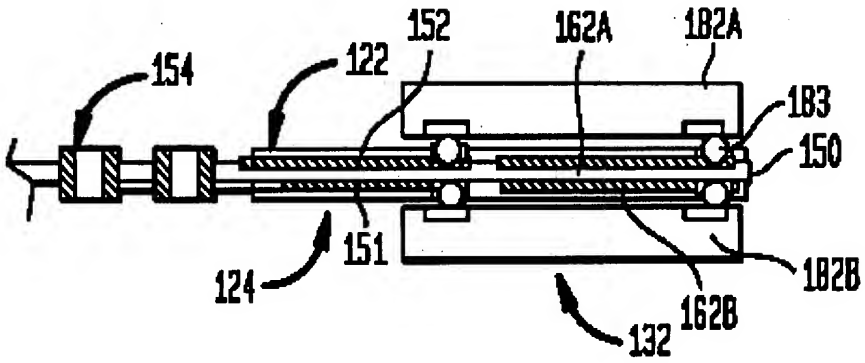


FIG. 6

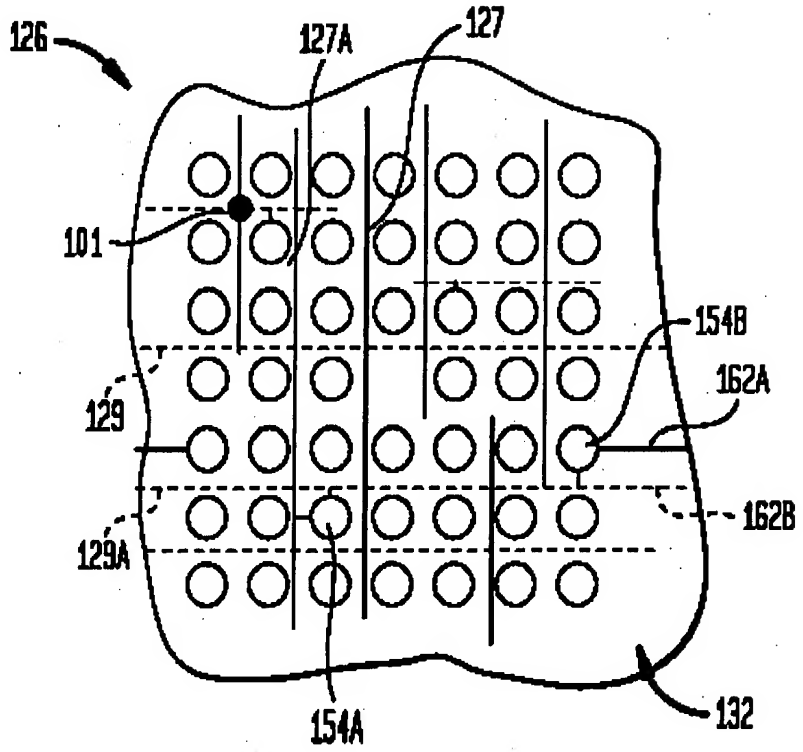


FIG. 7

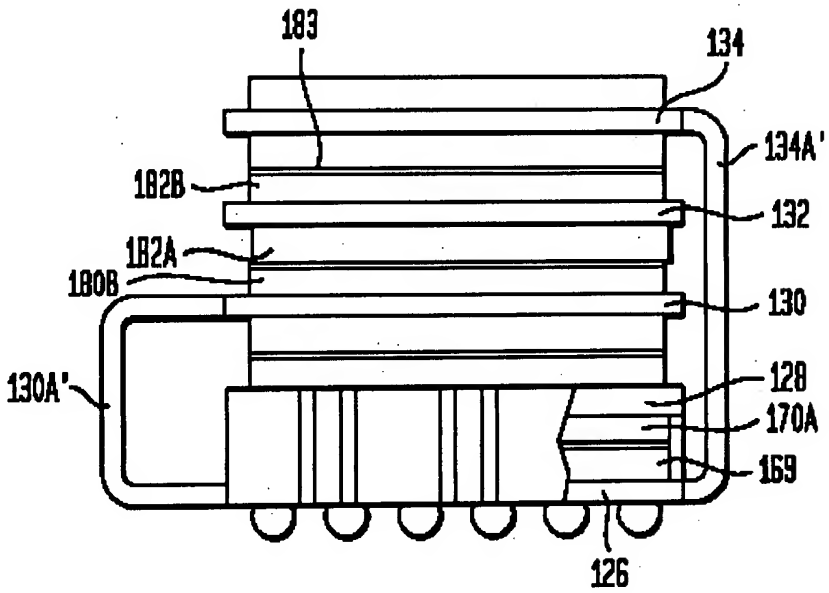


FIG. 8

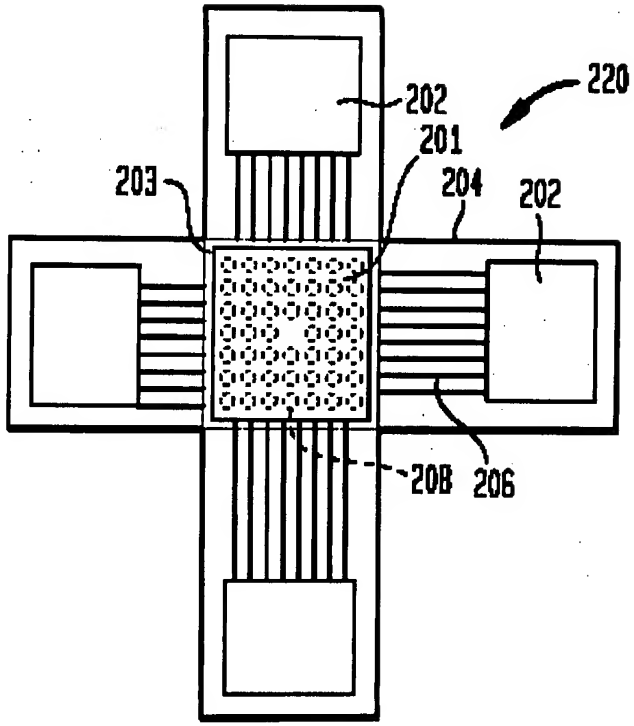


FIG. 9

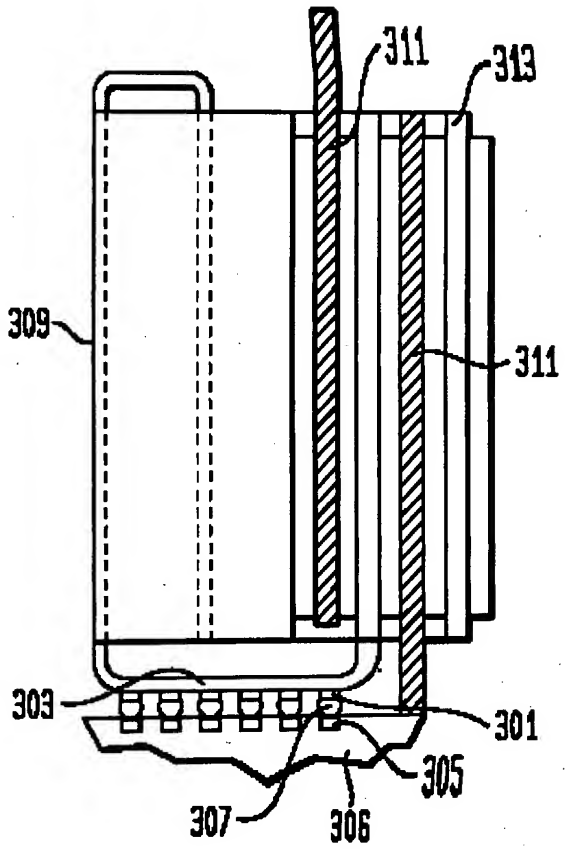


FIG. 10

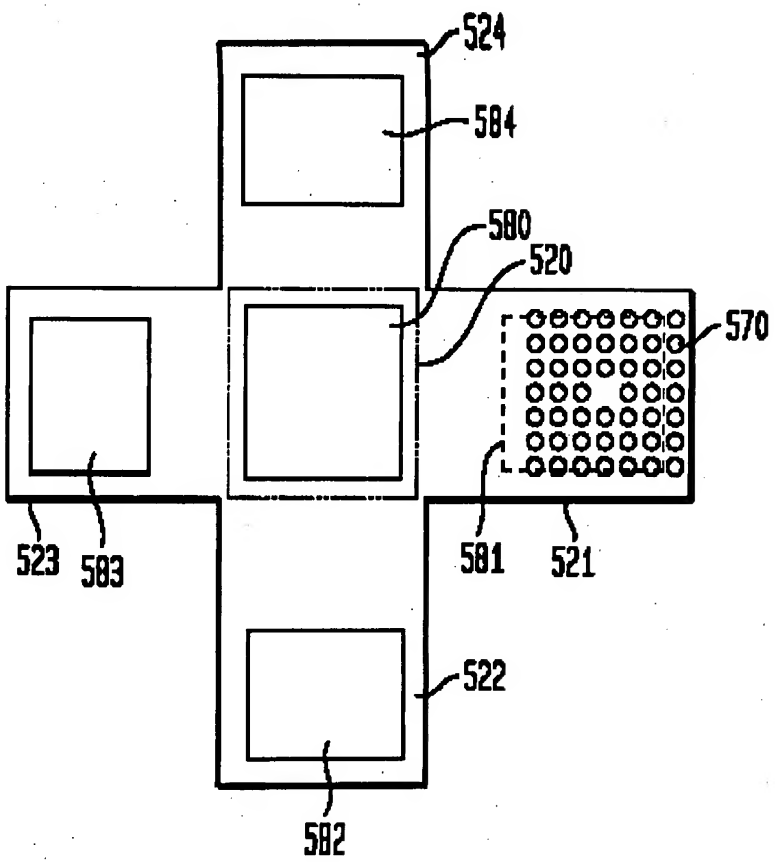


FIG. 11

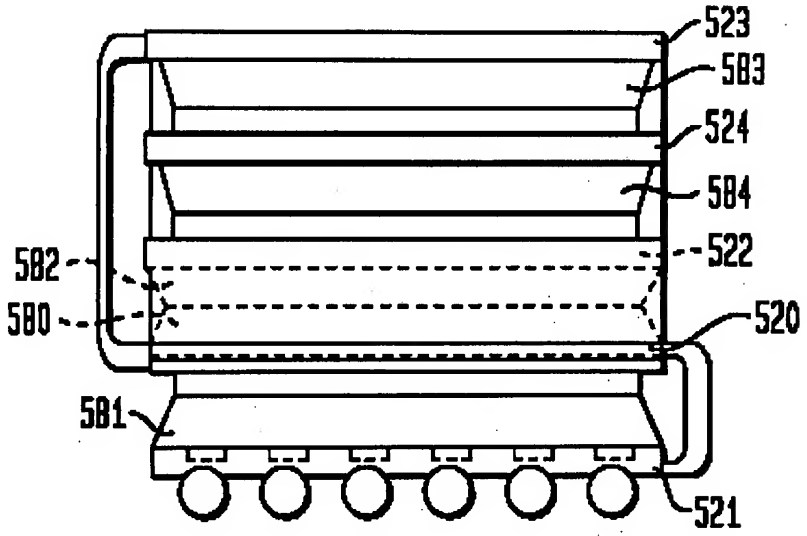


FIG. 12

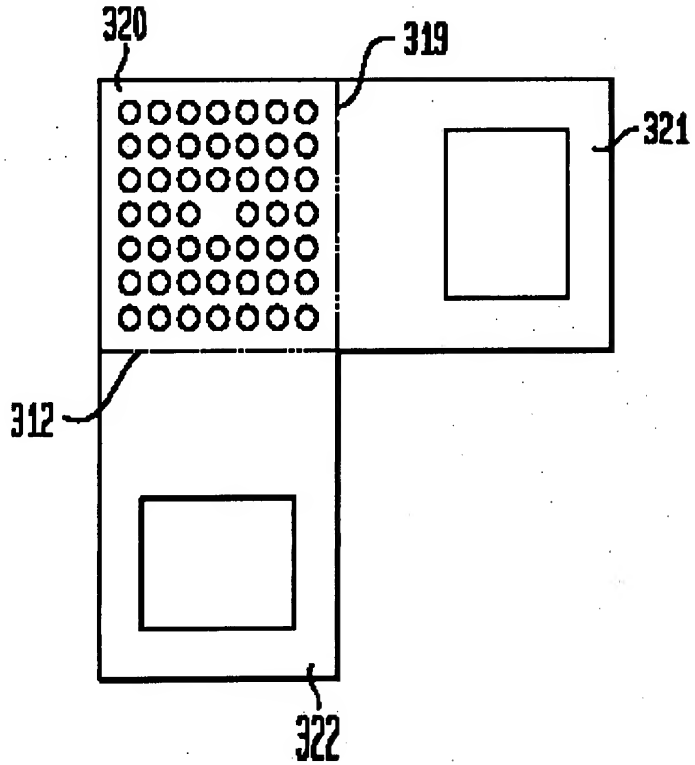


FIG. 13

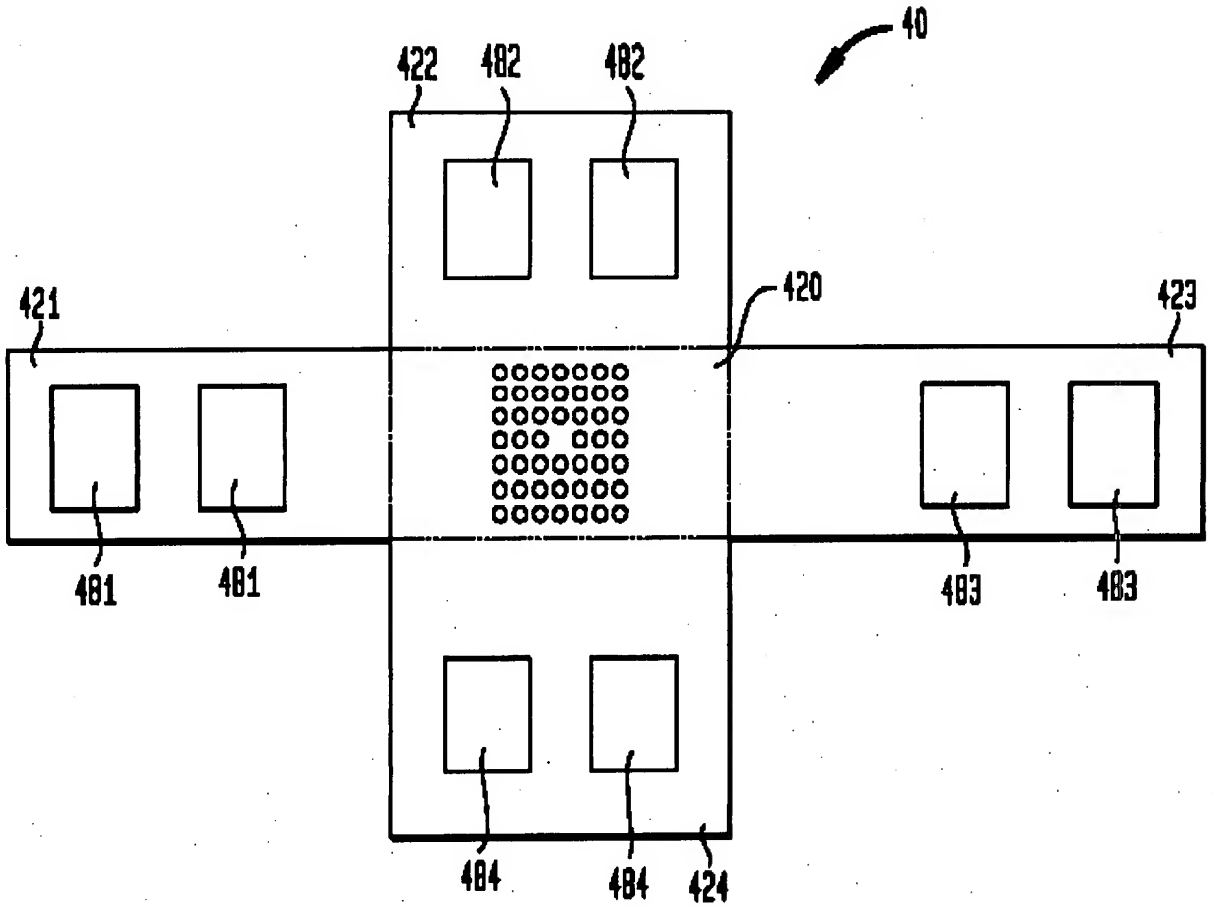


FIG. 14

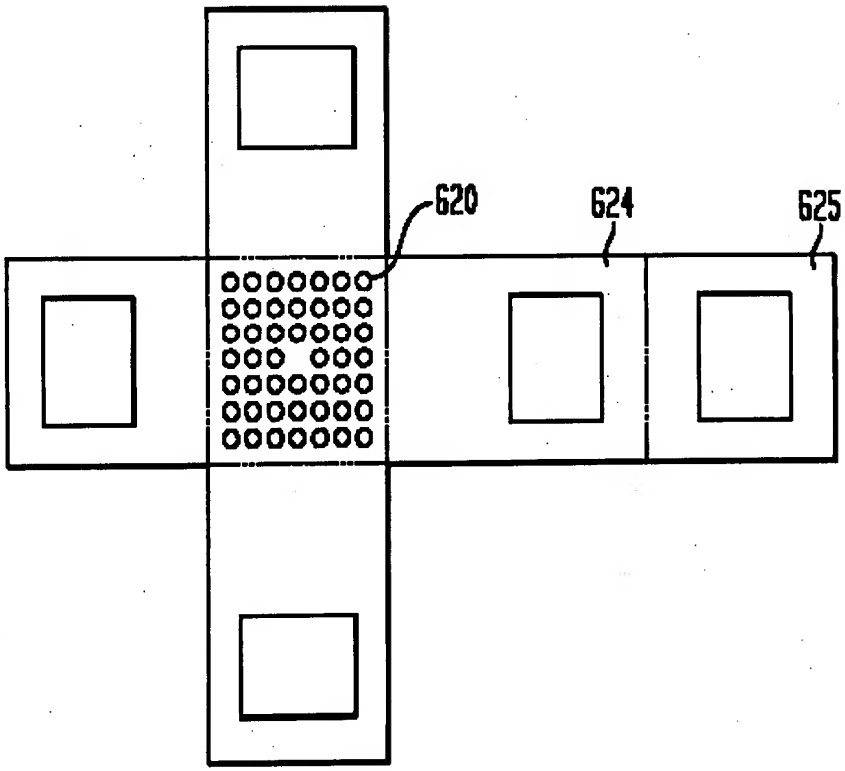


FIG. 15

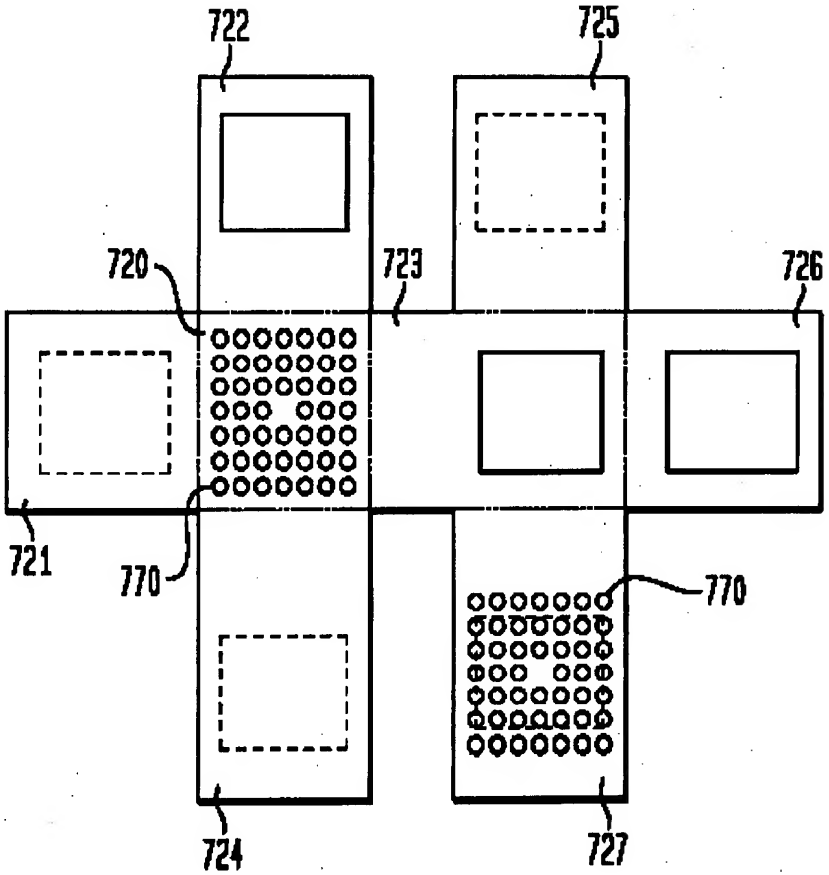


FIG. 16

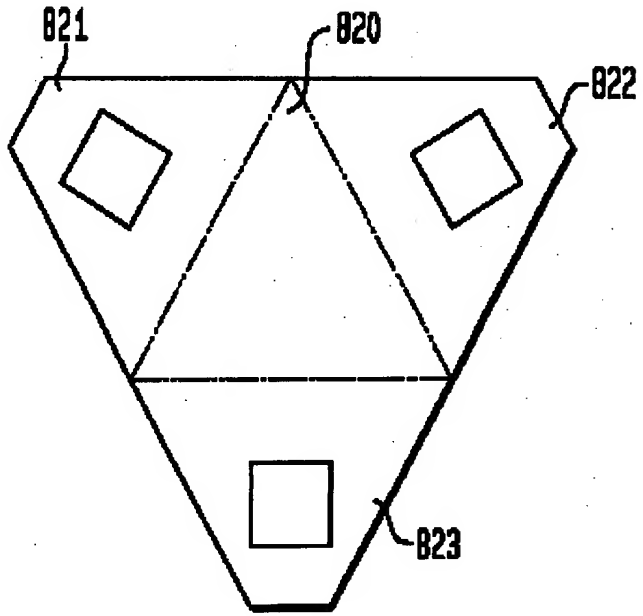


FIG. 17

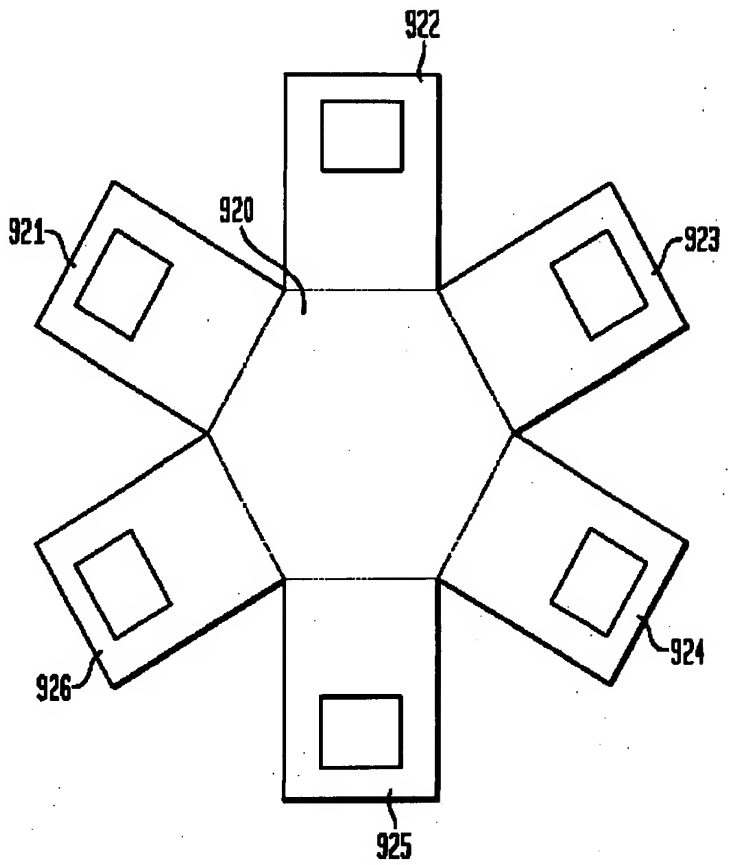


FIG. 18

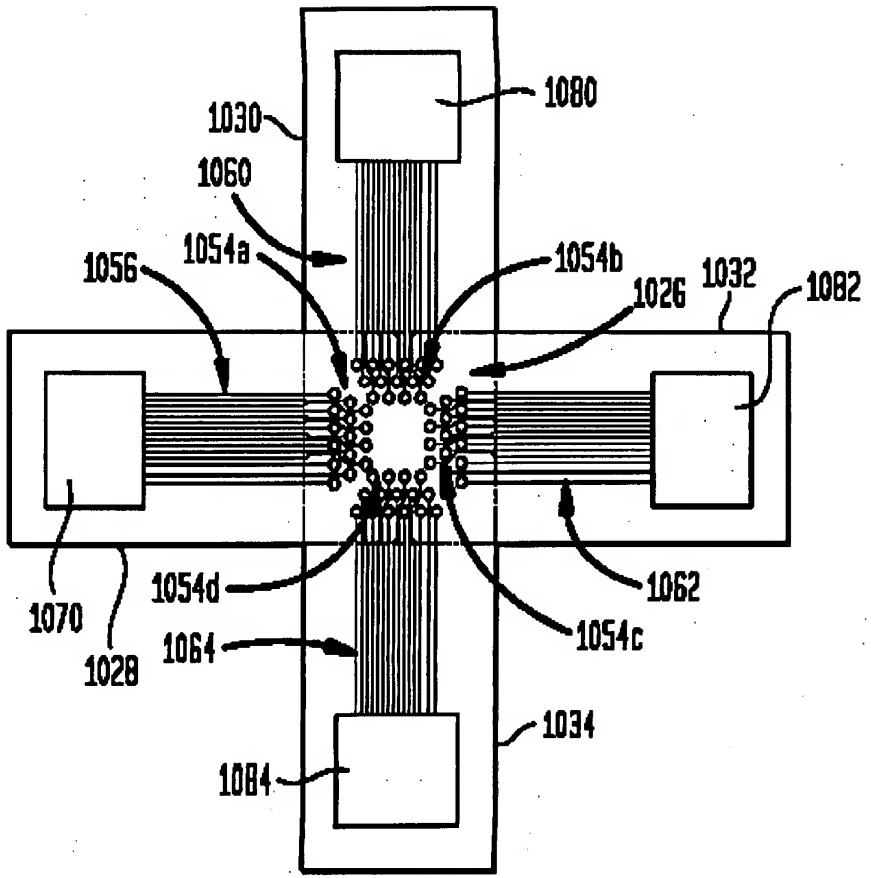

1080
1030
1060
1054a
1056
1054b
1026
1032
1082
1070
1028
1054d
1064
1062
1054c
1034
1084

FIG. 19

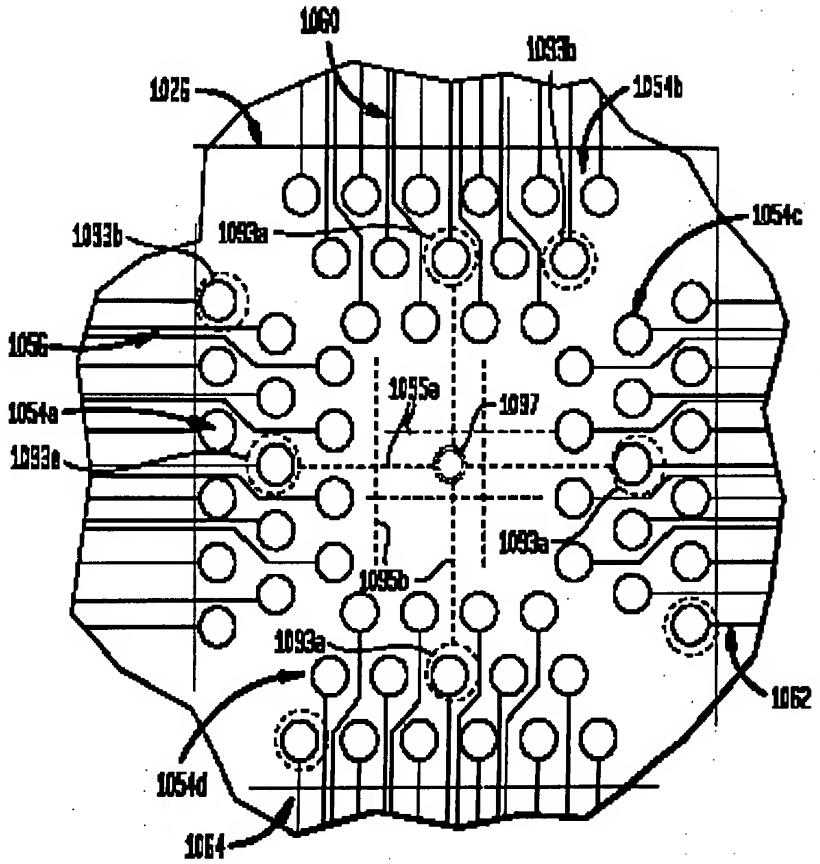

1060
1093b
1025
1054b
1054c
1093b
1093a
1056
1055a
1097
1054a
1093a
1093a
1095b
1093a
1052
1054d
1064

FIG. 20

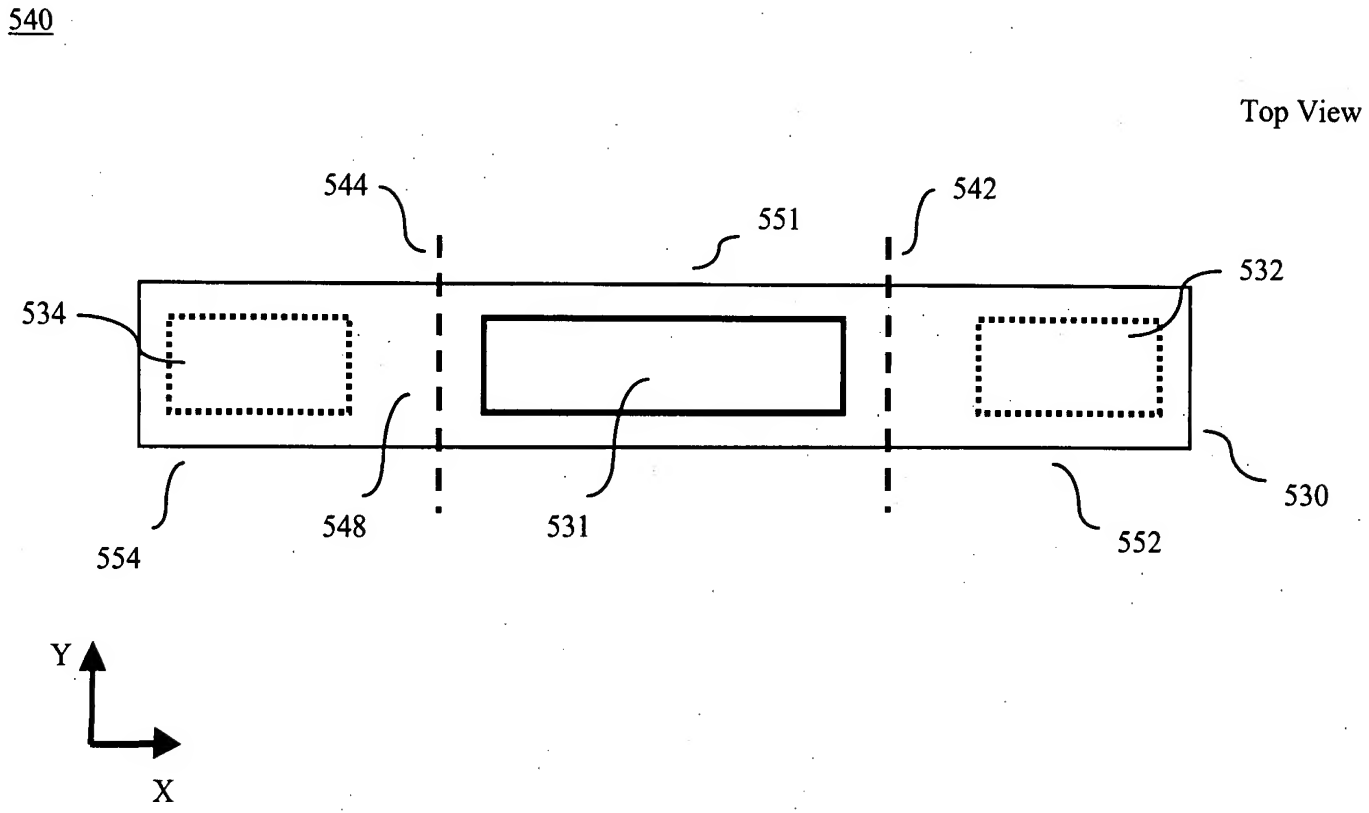


FIG. 21

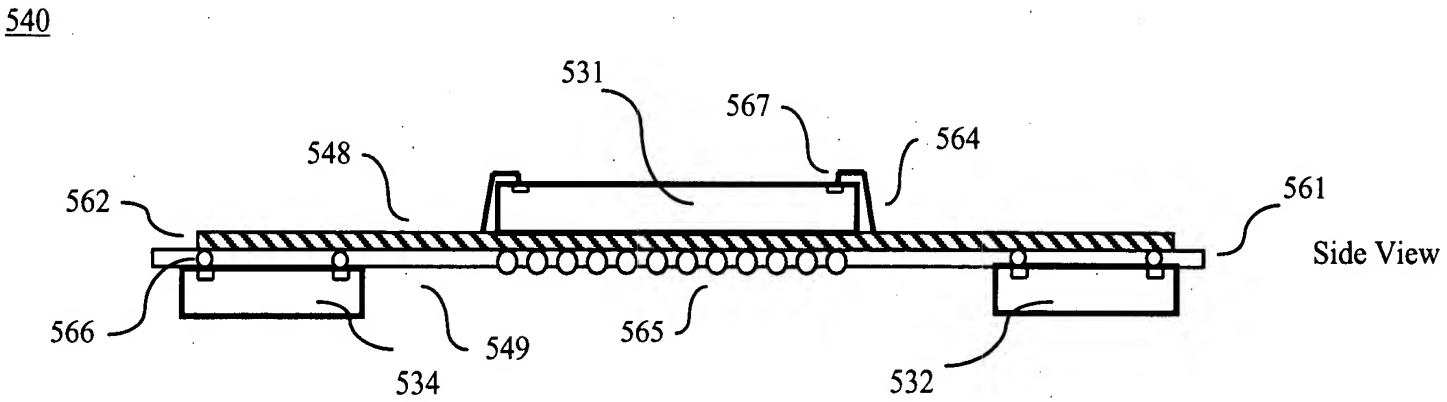
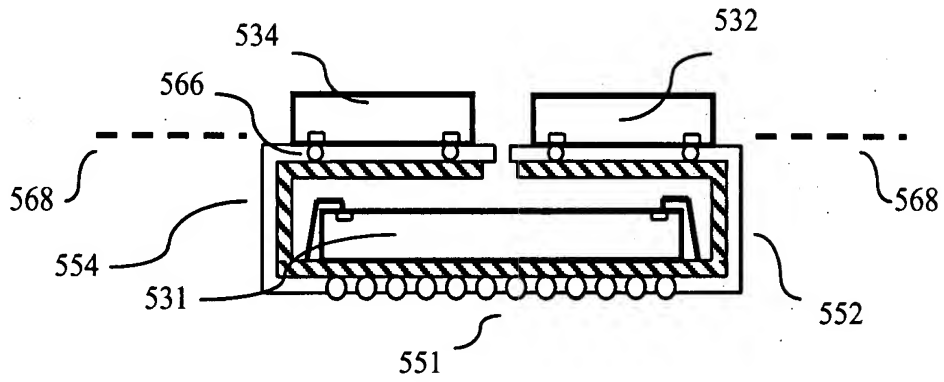


FIG. 22

540



Side View
(Folded)

FIG. 23

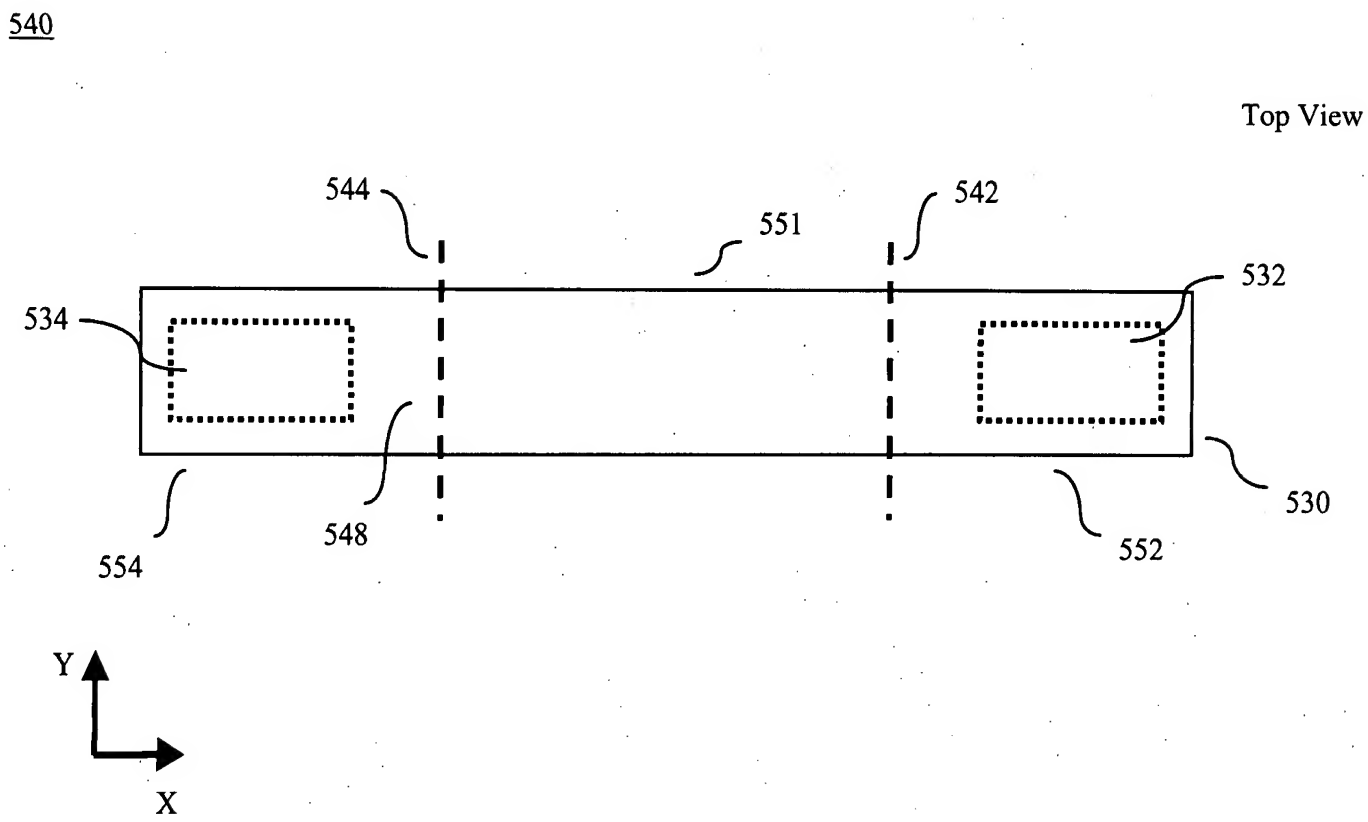


FIG. 24

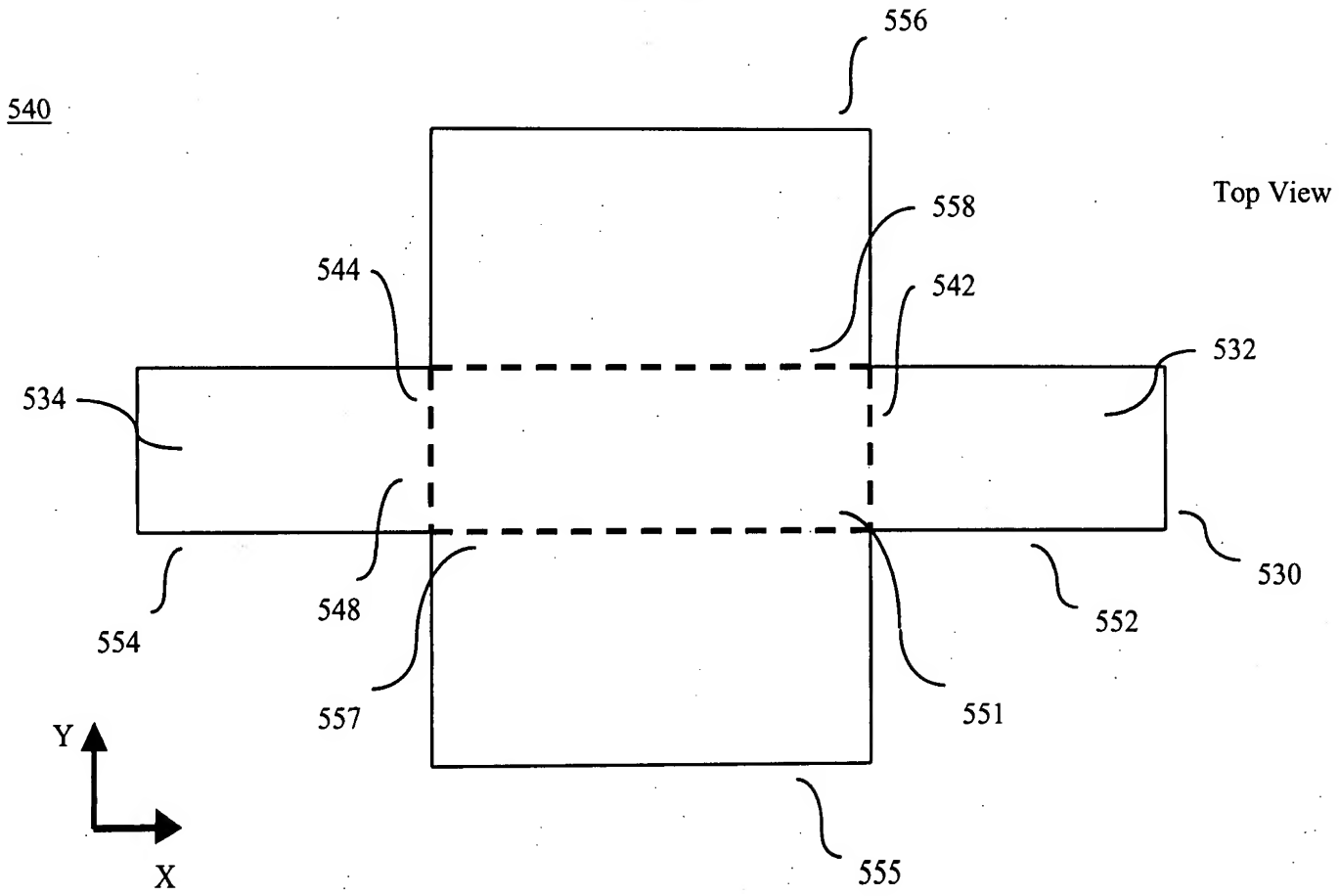

540
556
Top View
558
544
542
532
534
530
554
548
552
557
551
Y
X
555

FIG. 25

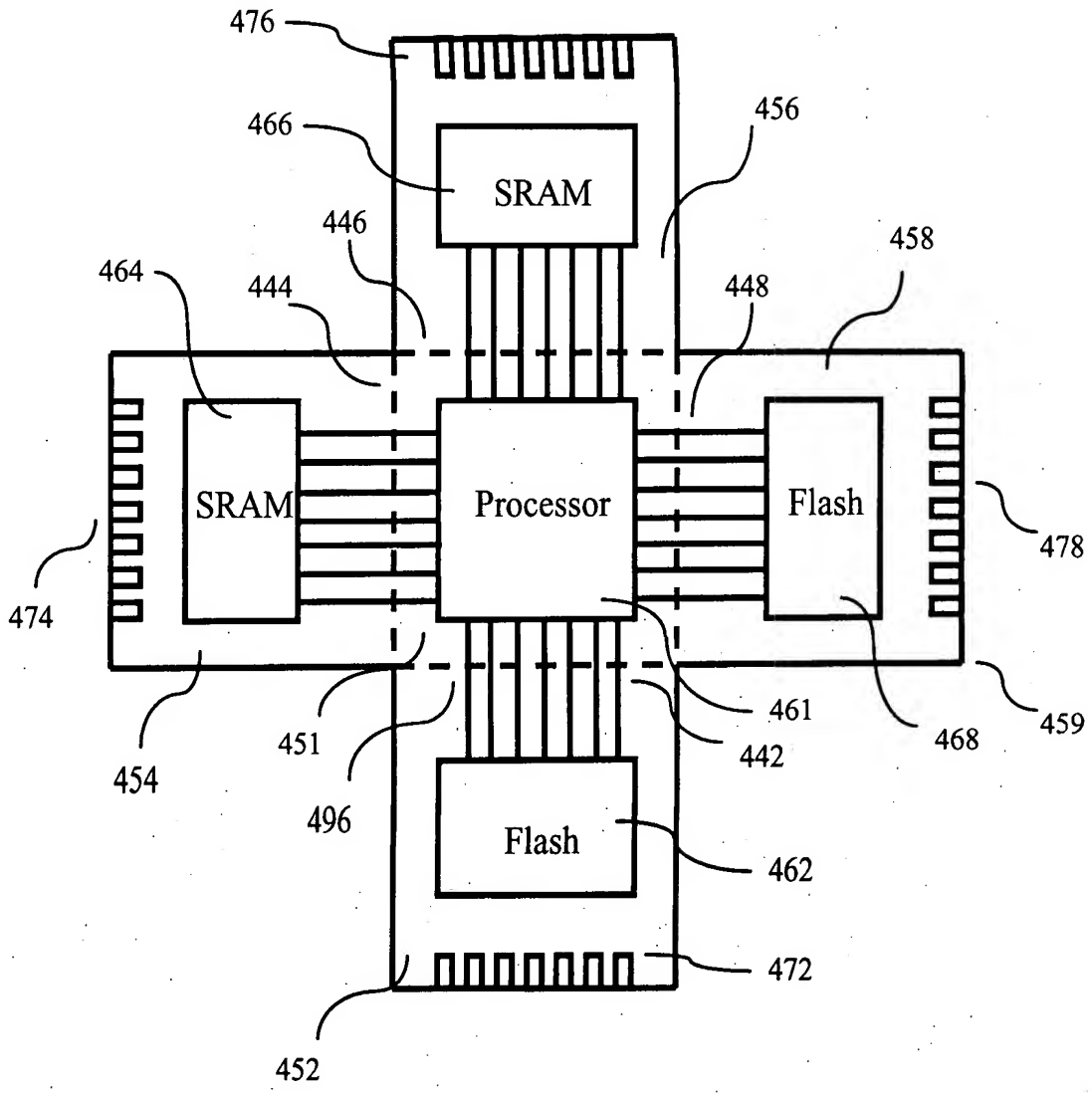

476
466
SRAM
456
446
458
464
444
448
SRAM
Processor
Flash
478
474
461
459
454
451
442
468
496
Flash
462
450
472
452

FIG. 26

Usable Packages	Memory Capacity		Failures
	Flash Capacity	SRAM Capacity	
chip assembly 450	32 Mbytes	2 Mbytes	No failures
chip assembly 450-1	16 Mbytes	2 Mbytes	one Flash memory
chip assembly 450-2	32 Mbytes	1 Mbytes	one SRAM memory
chip assembly 450-3	16 Mbytes	1 Mbytes	one Flash and one SRAM

FIG. 27

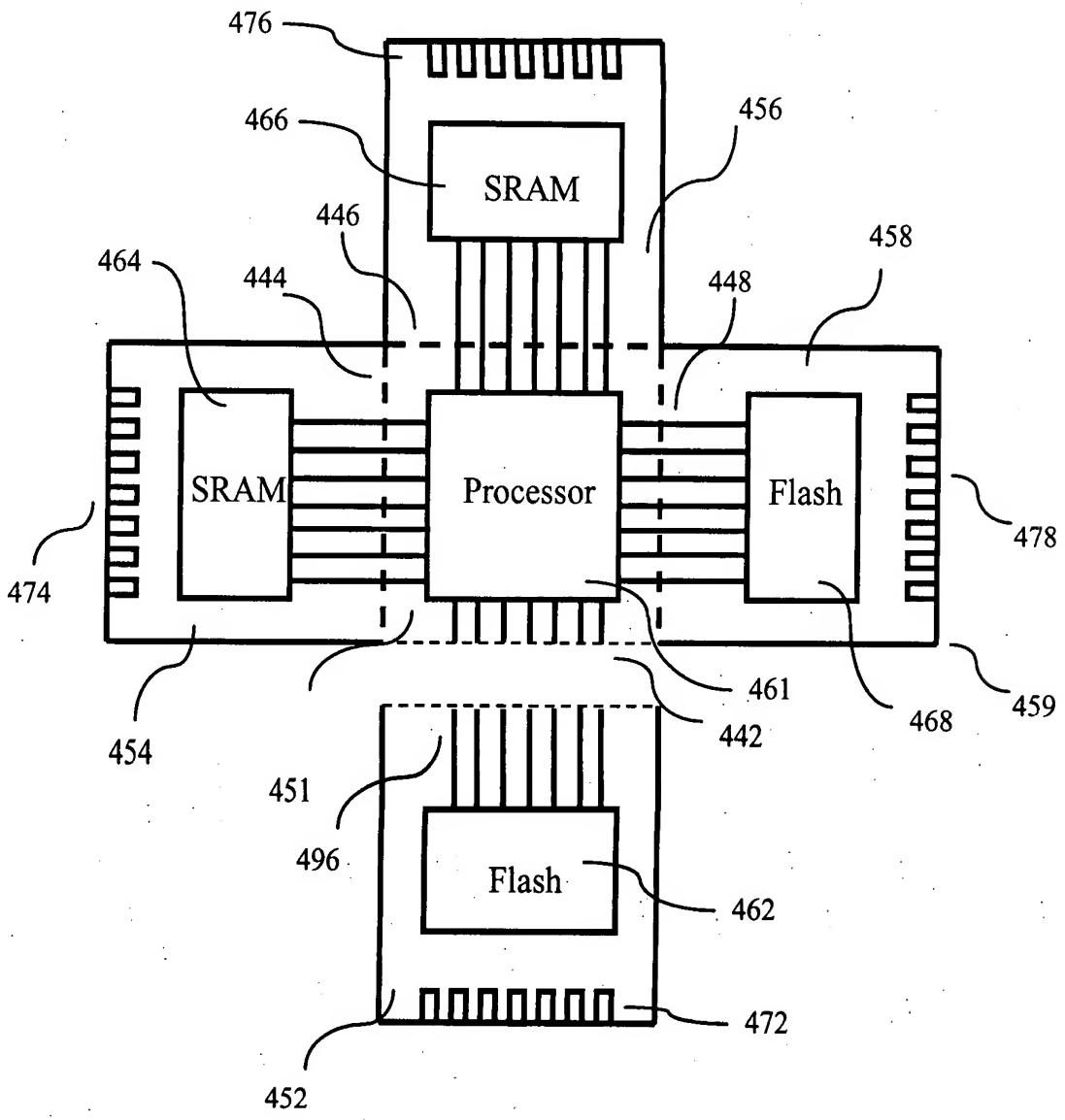

476
466
SRAM
456
446
458
464
444
448
SRAM
Processor
Flash
478
474
461
468
459
454
442
451
496
Flash
462
472
452
450

FIG. 28

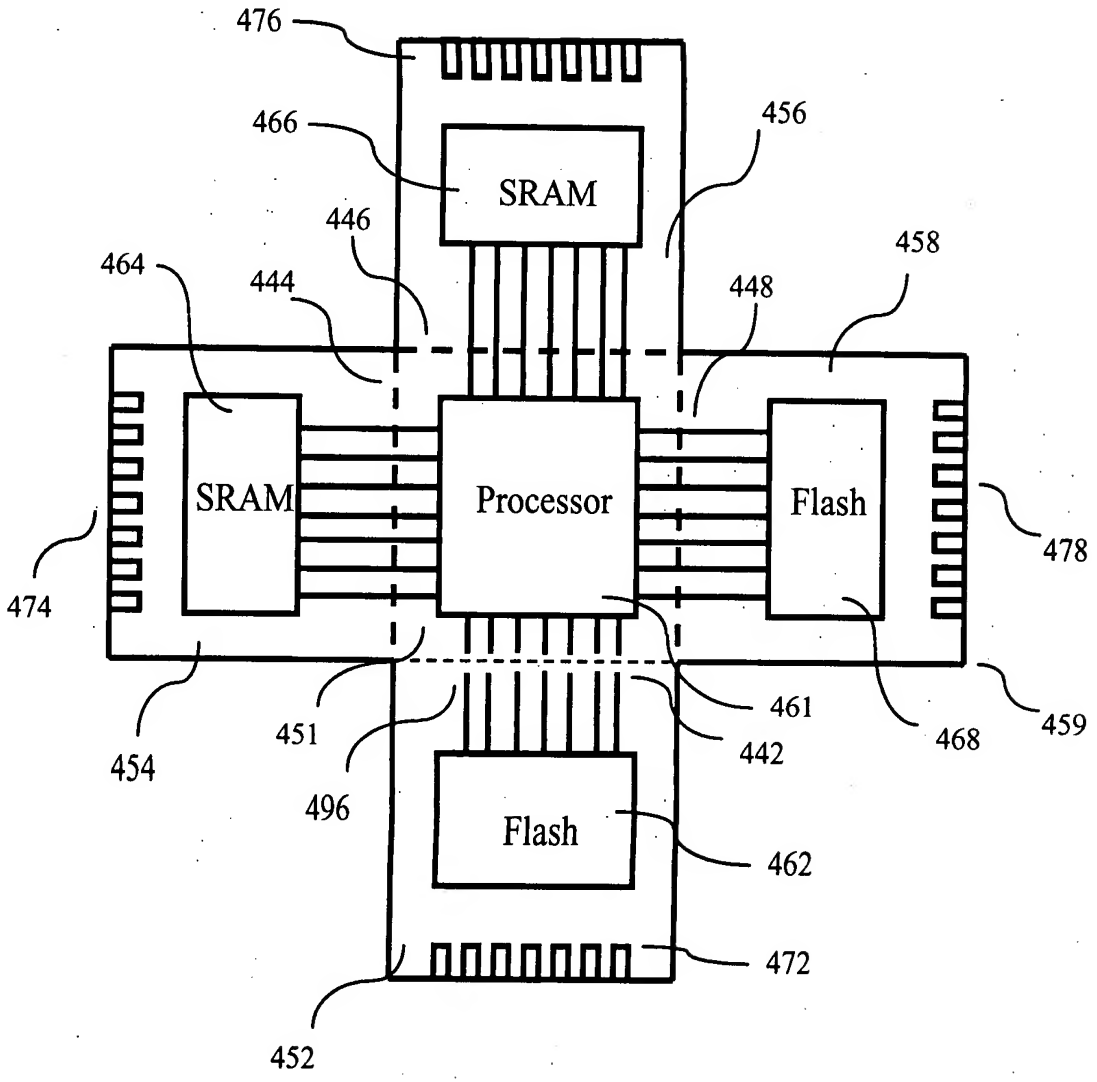
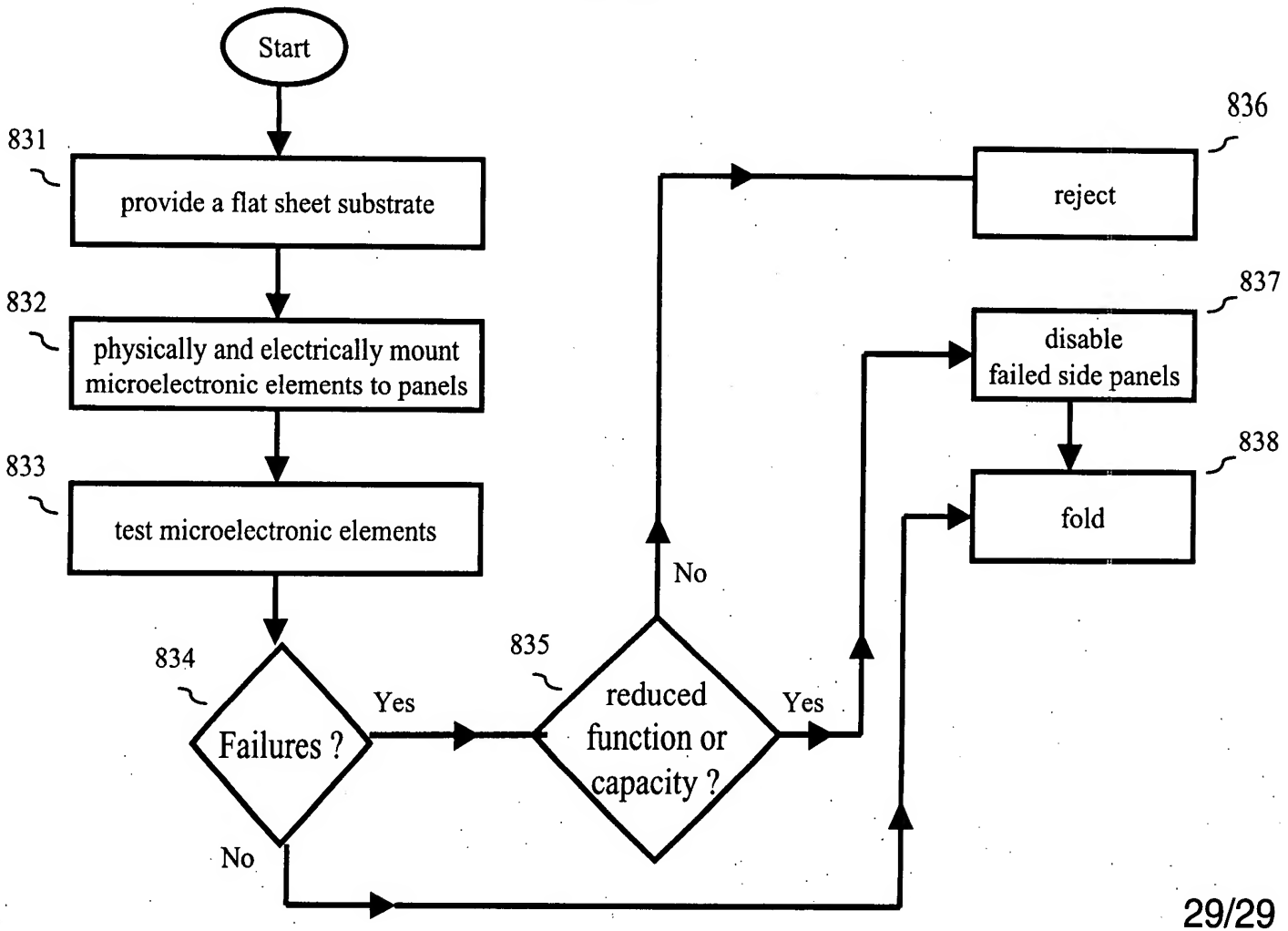

476
466
SRAM
456
446
458
464
444
448
SRAM
Processor
Flash
478
474
454
451
461
468
459
442
496
Flash
462
450
472
452

FIG. 29


Start
831
provide a flat sheet substrate
832
physically and electrically mount microelectronic elements to panels
833
test microelectronic elements
834
Failures ?
Yes
No
835
reduced function or capacity ?
Yes
No
836
reject
837
disable failed side panels
838
fold